

## ABSTRACT OF THE DISCLOSURE

1 A wireless network can be easily optimized utilizing processes according to the  
2 present invention. A simulation environment allows a network engineer to vary  
3 parameters (e.g., antenna height, tilt, and power) of a virtual model of the wireless network  
4 and observe how the changes affect coverage. Algorithms also enable hand off timing  
5 parameters for sectors in a wireless network to be optimized. One algorithm analyzes  
6 measured data regarding network coverage and regional terrain to arrive at a report  
7 containing recommended values for window size parameters (code division systems) or  
8 timing advance parameters (time division systems). Another algorithm analyzes measured  
9 data regarding network coverage to arrive at a report containing recommended neighbor  
10 lists for each sector in the network.

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